

# Distributed Starters with modularity and intelligence increase system flexibility

## Bulletin 198

### Modular DSA with DeviceLogix

The Bulletin 198 Modular Distributed Starter Auxiliary (MDSA) is an I/O System that has been specifically designed for Distributed Starters and general starter panels. The Modular DSA I/O System consists of a DeviceNet module followed by up to 16 I/O modules. The modules can be arranged in any combination and appear as one node on a DeviceNet network. Since the Modular DSA I/O System was designed specifically for Distributed Starters, it provides the ability to control and monitor devices such as motor starters, sensor, solenoids and load feeders and reduces the expense and problems of traditional wiring.

The DeviceLogix component technology incorporated into the MDSA allows it to be programmed with up to 48 function blocks to execute simple logic – elementary supervision and control tasks – locally. The local intelligence frees controllers and networks and increases the efficiency of the systems.

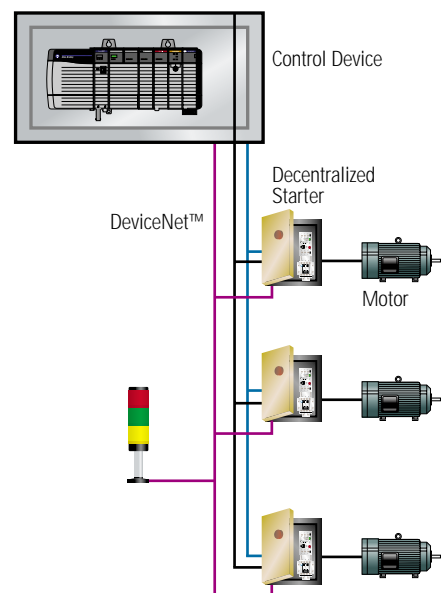
This functionality can be used to solve highspeed applications, controlled shut-down, or other local operations, such as Star-Delta motor starts without the necessity to equip the starter with a timing module.

The functionality of the DeviceLogix module is easy configured by using the software platform RSNetWorx™ which is commonly used when working with the DeviceNet Network. RSNetWorx allows to work on the screen with drag and drop functions for a fast and efficient set-up of the modules.

### Distributed Architecture

The advantages of distributed architecture:

- Reduced wiring
- Simplified connectivity
- Minimised space requirements



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## DeviceLogix Specifications

DeviceLogix is implemented on the MDSA DeviceNet Modules Series C.

Configuring these devices requires RSNetWorx™ Revision 3.00.00/Service pack 2 or more recent version.

<b>Maximum Function Blocks</b>	48	
<b>Booolean Function Blocks</b>	AND, NAND, OR, NOR, XOR, XNOR, NOT	2, 3 or 4 Inputs 1 Input
	RS Latch	Reset Dominant
	SR Latch	Set Dominant
<b>Counter Function Blocks</b>	Up Counter, Down Counter	
<b>Timer Functions Blocks</b>	Pulse Timer, On Delay Timer, Off Delay Timer	
<b>Execution Time</b>	16 function blocks per millisecond	

## Product Selection

Description	Input	Output	Cat. No.
DeviceNet Module Gland Plate-mounted with Micro (M12) DeviceNet Connector			198-DNG
DeviceNet Module DIN Rail-mounted			198-DN
Plastic Gland Plate			198-G1P
AC Starter Module	2 (120 V AC)	1 Relay (120 V Rated)	198-IA2XOW1
DC Starter Module	2 (24 V DC)	1 Solid-state (24 V DC)	198-IB2XOB1
DC/AC Starter Module	2 (DeviceNet Powered) (24 V DC)	1 Relay (250 V AC Rated)	198-IB2XOW1
Gland Plate-mounted DC Sensor (24 V DC) Module	2	0	198-IB2S
DIN Rail-mounted 120 V AC Input Module	2	0	198-IA2
DIN Rail-mounted 24 V DC Input Module	4	0	198-IB4S
DIN Rail-mounted 24 V DC Input Module (Requires external power source)	4	0	198-IB4
Gland Plate-mounted AC 9000 Sensor Module (120 V AC Input)	1	0	198-IA1-G4-9000
Gland Plate-mounted 120 V AC Input Module	2	0	198-IA2-G4
Gland Plate-mounted Relay Output Module 24 V DC/120 V AC (Powered externally)	0	2 Relay	198-OW2-G4
Gland Plate-mounted Relay Output Module (DeviceNet-powered output 24 V DC)	0	2 Relay	198-OW2S-Q5
DIN Rail-mounted Relay Output Module 24 V DC/120 V AC (Powered externally)	0	2 Relay	198-OW2
Drive Preset Speed Module	2 (120 V AC)	–	198-IB2XOB5S
Drive Signal Follower Module	2 (24 V DC)	–	198-IB2XOB2-Q5

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